



South Carolina Department of Education

Together, we can.

Cluster of Study: Information Technology

CIP Code: 110201

Major: Programming and Software Development **Course selection will depend on satisfying prerequisites*

Required Core for Graduation	SAMPLE CORE CHOICES For additional college entrance requirements, refer to the college of your choice			
	9	10	11	12
English* Four Units Required	English I	English II	English III	English IV
Math* Four Units Required	Algebra I	Algebra II or Geometry	Geometry or Pre-Calculus or Everyday Stats.	Pre-Calculus or Calculus or Adv. Math Topics
Science* Four Units Required	Physical Science	Biology I or Environ. Studies	Chemistry I or Physics or Marine Science or Biology II	Physics Biology III or Anat/Phys Honors or Criminal Forensics
Social Studies Three Units Required	One Unit of Social Studies		US History	Government/Economics
Additional State Requirements	Physical Education or JROTC (one unit) Computer Science (one unit) Foreign Language or CTE (one unit) Electives (seven units) Pass High School Assessment Program Art (one unit)(per CHE entrance requirements)			
Required Courses for Major (Minimum of four credits required)	Complementary Coursework		Extended Learning Opportunity Options Related to Major	
Computer Programming 1 Computer Programming 2 OR Oracle Management SQL Oracle Development PL/SQL <u>Plus two or more of the following:</u> Animated Computer Production AP Computer Science Computer Programming 3, 4 Information Technology Foundations Web Page Design & Development 1,2 Work Based Credit (Programming)	Computer Applications 1, 2 Digital Input Technologies Desktop Publishing Digital Imaging 1, 2 E-Commerce Integrated Business Applications 1, 2 Multimedia		Career Mentoring Shadowing Internship Work Based Education Career Information Delivery System Exposure Senior Project	

Professional Opportunities Upon Graduation



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High School Diploma	Adt'l Training to 2-year Degree	4-Year Degree & Higher
PC Support Specialist Technical Support Specialist Website Maintenance Specialist	Computer Programmer Software Applications Manager Help Desk Specialist Systems Analyst	Computer Software Engineer Gaming Programmer Software Applications Architect Operating Systems Engineer